WHAT IS CLAIMED IS:

1. A transceiver system, comprising:

a transmitter portion arranged on a bottom layer of a multi-layer board, the transmitter portion capable of providing signals to a transmitter optical subassembly;

a receiver portion arranged on the bottom layer of the multi-layer board, the receiver portion capable of receiving signals from a receiver optical subassembly;

a high-voltage power supply arranged on a top layer of the multi-layer board, the high-voltage power supply providing a bias voltage for the receiver optical sub assembly; and

a metallic ground plane arranged on a first intermediate layer between the top layer and the bottom layer, the metallic ground plane providing electrical isolation between the high-voltage power supply and the transmitter portion and the receiver portion.

- 2. The system according to claim 1, wherein the transmitter portion and the receiver portion are arranged in a split-ground arrangement.
- 3. The system according to claim 1, wherein a second intermediate layer having vias is arranged between the first intermediate layer and the top layer.
- 4. The system according to claim 1, wherein a third intermediate layer having vias is arranged between the first intermediate layer and the bottom layer.
- 5. The system according to claim 4, wherein an interconnect layer is arranged between the first intermediate layer and the third intermediate layer.
- 6. The system according to claim 1, further including a microcontroller system arranged on the top layer and the bottom layer.
 - A transceiver system, comprising:
 means for receiving signals from a receiver optical subassembly;

means for transmitting signals through a transmitter optical subassembly;

means for generating a high-voltage bias for the receiver optical sub

assembly;

means for electrically isolating the means for generating the high-voltage bias from the means for receiving and the means for transmitting.

8. A method of isolating from a high voltage power supply, comprising:

arranging the high voltage power supply on a top layer of a multi-stack circuit board;

arranging other circuitry on a bottom layer of the multi-stack circuit board; and

arranging a shielding plane on an intermediate layer of the multi-layer circuit board.

- 9. The method of claim 8, wherein arranging other circuitry on the bottom layer includes arranging a receiver and a transmitter on the bottom layer.
- 10. The method of claim 8, further including providing a split ground between the high-voltage power supply and the other circuitry.
- 11. The method of claim 8, further including arranging a first intermediate layer between the top layer and the bottom layer, the first intermediate layer including vias to provide electrical contact with traces on the top layer.
- 12. The method of claim 11, further including arranging a second intermediate layer between the first intermediate layer and the intermediate layer, the second intermediate layer providing traces.
- 13. The method of claim 12, further including arranging a third intermediate layer between the intermediate layer and the bottom layer, the third intermediate layer including vias.

14. A transceiver, comprising:

means for providing a bias voltage formed on a multi-layer board;

means for receiving a signal formed on the multi-layer board;

means for transmitting a signal formed on the multi-layer board; and

means for isolating the means for providing a bias voltage from the means

for receiving a signal and the means for transmitting a signal on the multi-layer board.